



MCANDREWS, HELD & MALLOY
34TH FLOOR
500 WEST MADISON STREET
CHICAGO, ILLINOIS 60661



**ARO PLEASE DELIVER RETURN RECEIPT TO
DARLENE LONG**

TELEPHONE: (312) 775-8000

FACSIMILE: (312) 775-8100

Certificate of Transmission under 37 CFR 1.8

CONFIDENTIAL

THE ENCLOSED MATERIAL IS INTENDED FOR THE RECIPIENT NAMED BELOW AND, UNLESS OTHERWISE EXPRESSLY INDICATED, IS CONFIDENTIAL AND PRIVILEGED INFORMATION. ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THE ENCLOSED MATERIALS IS PROHIBITED. IF YOU RECEIVE THIS TRANSMISSION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE, AT OUR EXPENSE, AND DESTROY THE ENCLOSED MATERIALS. YOUR COOPERATION IS APPRECIATED.

TO: **Mail Stop Issue Fee**
Commissioner for Patents

FAX NO.: **(571) 273-2885**

FROM: **Michael T. Cruz**

USER ID: **8084**

CLIENT: **01772**

MATTER: **15267US01**

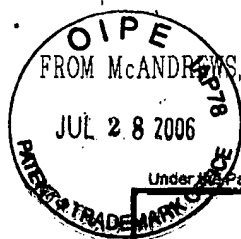
Number of Pages This Transmission (Including Cover Page): **10**

I hereby certify that the attached Transmittal (1 page); Fee Transmittal (1 page, in duplicate); Part B – Fee(s) Transmittal (1 page, in duplicate); and Comments on Statement of Reasons for Allowance (4 pages) are being facsimile transmitted to the United States Patent and Trademark Office on July 28, 2006.

A handwritten signature of Michael T. Cruz in black ink.

Michael T. Cruz, Reg. No. 44,636

If you have problems receiving this facsimile transmission, please contact the sender at the above telephone number.



FROM McANDREWS, HELD, & MALLOY

(FRI) 7.28'06 15:10/ST. 15:09/NO. 4861050277 P 2

PTO/SB/21 (09-04)

Approved for use through 7/31/2006

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission 9

Application Number	09/692,681
Filing Date	October 18, 2000
First Named Inventor	Jacob Rael
Art Unit	2818
Examiner Name	Marceau Milord
Attorney Docket Number	15267US01

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form (1 page, in duplicate) <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Return-Receipt Postcard <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		Part B - Fee(s) Transmittal (1 page, in duplicate) Comments on Statement of Reasons for Allowance (4 pages)

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm	McAndrews Held & Malloy, Ltd.
Signature	<i>Michael T. Cruz</i>
Printed Name	Michael T. Cruz, Reg. No. 44,636
Date	July 28, 2006

CERTIFICATE OF FAX TRANSMITTAL

I hereby certify that this correspondence is being sent via facsimile to Mail Stop Issue Fee, Commissioner for Patents, at the United States Patent and Trademark Office at (571) 273-2885 on July 28, 2006.

Name (Print/typc)	Michael T. Cruz	Registration No. (Attorney/Agent)	44,636
Signature	<i>Michael T. Cruz</i>	Date	July 28, 2006

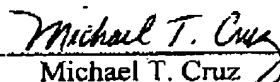
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Jacob Rael et al.

Serial No.: 09/692,661*Filed:* October 18, 2000*For:* ADAPTIVE RADIO
TRANSCIVER WITH A WIDE
TUNING RANGE VCO*Examiner:* Marceau Milord*Group Art Unit:* 2618*Conf. No.:* 7173*Cust. No.:* 23446CERTIFICATE OF FACSIMILE
TRANSMISSION

I hereby certify that this correspondence is being sent via facsimile transmission to the United States Patent and Trademark Office, fax No. (571) 273-2885, on July 28, 2006.


Michael T. Cruz
Reg. No. 44,636

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This paper responds to the Examiner's Statement of Reasons for Allowance ("the Examiner's Statement") in the above-identified application and accompanies the issue fee transmittal (part B).

U.S. Application No. 09/692,661

Comments dated July 28, 2006

In Reply to Notice of Allowability of July 14, 2006

Accompanying Issue Fee Payment and Part B - Fcc(s) Transmittal

REMARKS

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "a first resonator having a first tuning input to tune the first resonator as a function of a first current applied to the first tuning input; and a second resonator coupled to the first resonator, the second resonator having a second tuning input to tune the second resonator as a function of a second current applied to the second tuning input, wherein the first resonator comprises a first output and the second resonator comprises a second output, and wherein the output of the first resonator is fed back to the second tuning input for the second resonator, and the output of the second resonator is fed back to the first tuning input for the first resonator" as set forth in claim 1.

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "a first resonator having a first tuning input; a second resonator coupled to the first resonator, the second resonator having a second tuning input; first control means for controlling a first current applied to the first resonator to tune the first resonator; and second control means for controlling a second current applied to the second resonator to tune the second resonator, wherein the first resonator comprises a first output and the second resonator comprises a second output, and wherein the first control means feeds back the output of the second resonator to the first tuning input, and the second control means feeds back the output of the first resonator to the second tuning input" as set forth in claim 15.

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "a first resonator having a first tuning input and a first output; a second resonator having a second tuning input and a second output; a first transconductance cell coupled between the first output and the second tuning input; a second transconductance cell coupled between the second output and the first tuning input; a third transconductance cell coupled between the first output and the first tuning input; and a fourth transconductance cell coupled between the second output and the second tuning input" as set forth in claim 29.

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "a current controlled oscillator including a first resonator having a first tuning input to tune the first resonator as a function of a first current

U.S. Application No. 09/692,661

Comments dated July 28, 2006

In Reply to Notice of Allowability of July 14, 2006

Accompanying Issue Fee Payment and Part B - Fee(s) Transmittal

applied to the first tuning input, and a second resonator coupled to the first resonator, the second resonator having a second tuning input to tune the second resonator as a function of a second current applied to the second tuning input; and a controller having a first control to control the first current to the first tuning input, and a second control to control the second current to the second tuning input, wherein the first resonator comprises a first resonator output and the second resonator comprises a second resonator output, and wherein the first resonator output is fed back to the second tuning input for the second resonator, and the second resonator output is fed back to the first tuning input for the first resonator" as set forth in claim 35.

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "converting an output of a first resonator to a first current; converting an output of a second resonator to a second current; tuning a first resonator as a function of the second current; and tuning the second resonator as a function of the first current" as set forth in claim 48.

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "generating a first digital word; selecting one of the frequency bands with the first digital word; generating a second digital word; and tuning the oscillator to an operating frequency within the selected frequency band with the second digital word" as set forth in claim 57.

Applicants respectfully submit that the documents made of record, taken alone or in combination, fail to fairly describe, teach or suggest "selection means for selecting one of the frequency bands as a function of a first digital word; and tuning means for tuning the oscillator to an operating frequency within the selected frequency bands as a function of a second digital word" as set forth in claim 76.

Applicants respectfully submit that the Examiner's Statement might imply that the dependent claims are only allowable because they depend from allowed independent claims. However, the Examiner's Statement does not discuss any of the other elements of the claimed subject matter, in particular, those additional elements recited in the dependent claims which may render the dependent claims independently allowable in view of the specification, prosecution file history and/or the documents made of record, either alone or in combination.

Applicants respectfully submit that the Examiner's Statement presents only some of the reasons for allowance of the claims, and that other reasons also exist for allowing the claims such

Page 3 of 4

U.S. Application No. 09/692,661

Comments dated July 28, 2006

In Reply to Notice of Allowability of July 14, 2006

Accompanying Issue Fee Payment and Part B - Fee(s) Transmittal

as, for example, those set forth more completely in the record as a whole. This interpretation is consistent with M.P.E.P. § 1302.14, which states that any statement of reasons for allowance "[i]s not intended to necessarily state all the reasons for allowance or all the details why claims are allowed and should not be written to specifically or impliedly state all the reasons for allowance are set forth." M.P.E.P. § 1302.14.

Finally, Applicants agree with the Examiner that claims 1, 3, 5-15, 17, 19-35, 37 and 39-153 are allowable in view of all of the documents made of record, either alone or in combination. However, Applicants do not necessarily agree or disagree with the Examiner's characterization of the documents made of record, either alone or in combination, or the Examiner's characterization of recited claim elements. In closing, Applicants respectfully reserve the right to argue the characterization of the documents of record, either alone or in combination, or the characterization of the recited claim elements should that need arise in the future.

If the Examiner has questions, or if Applicants can be of assistance, the Examiner is invited and encouraged to contact Applicants' representative at the below-listed telephone number.

The Commissioner is hereby authorized to charge additional fees or credit overpayments to the deposit account of McAndrews, Held & Malloy, Account No. 13-0017.

Dated: July 28, 2006

Respectfully submitted,


Michael T. Cruz

Reg. No. 44,636

McAndrews, Held & Malloy, Ltd.
500 West Madison Street, 34th Floor
Chicago, Illinois 60661
Telephone: (312) 775-8084
Facsimile: (312) 775-8100